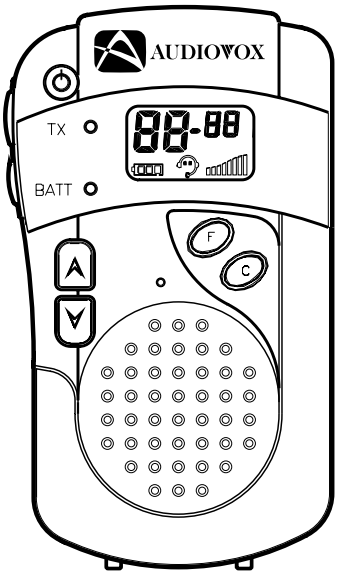
AUDIOVOX
CORPORATION

Owner's Manual
Model FR-240
Two Way Family Radio



Customer Service
1-800-645-4994

CONGRATULATIONS ON YOUR SELECTION
OF THE FR-240 (FAMILY RADIO)

It is one of the most sophisticated and reliable two way
Family radios available.

BEFORE OPERATING YOUR FR-240 (FAMILY RADIO)
READ THIS MANUAL CAREFULLY

FCC WARNING

Replacement or substitution of transistors, diodes or other parts of a unique nature, with parts other than those recommended by the manufacturer, may cause a violation of the technical regulations of Part 15 of FCC Rules.

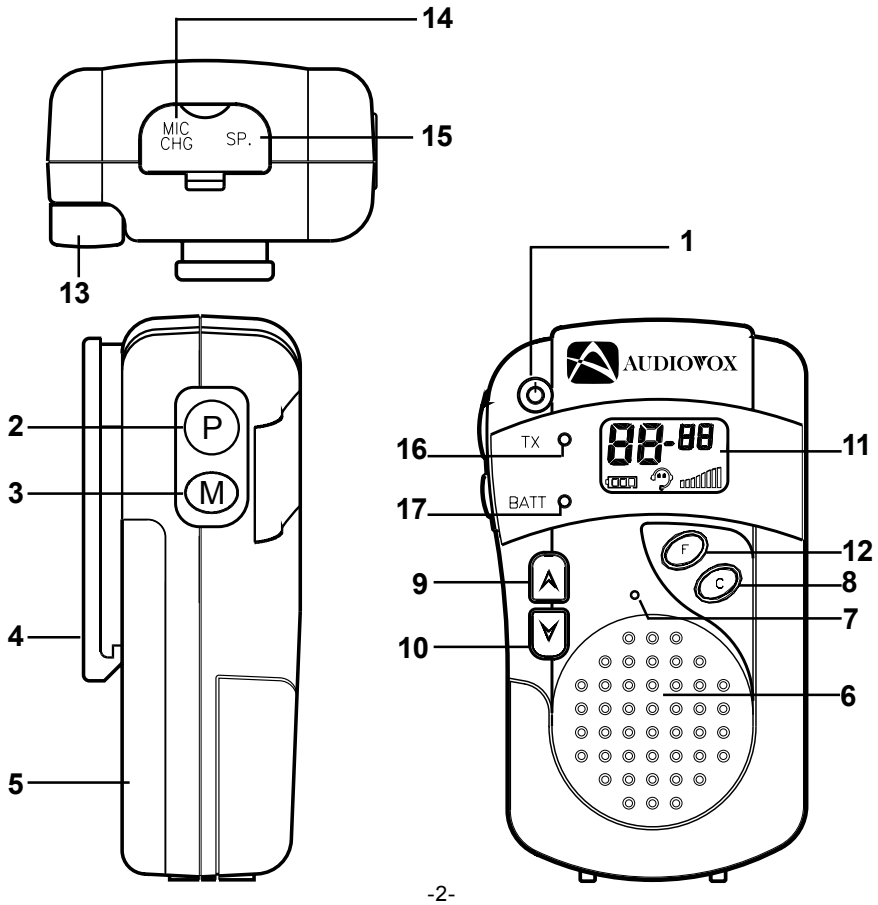
FEATURES

Your FR-240 Family Radio is a portable, easy to use, two-way radio that you can carry almost anywhere. It is skillfully constructed to give you reliable communications for many different applications. The FR-240 is ideal for use around the house, in your boat, on hunting and camping trips, on the ski slopes or at the mall.

PERFORMANCE

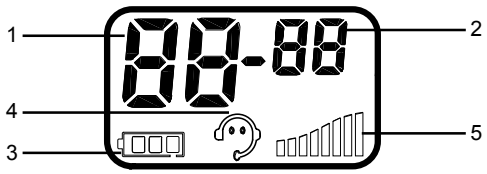
Your transceiver will achieve its maximum operating range when communicating with other transmitter(s) in a flat open area with no trees or buildings obstructing its signal. Range may be up to two miles under such conditions. Obstacles such as buildings, trees or mountains will tend to reduce the transceiver's effective range.

FUNCTION AND LOCATION OF THE CONTROLS



1. **Power Button:** Press and hold this button for 2 seconds to turn the transceiver on or off.
2. **Push-to-Talk Button:** Press to transmit. Release to receive.
3. **Monitor Button:** Press and hold to bypass the squelch and listen to channel activity.
4. **Belt Clip**
5. **Battery Compartment**
6. **Speaker**
7. **Microphone**
8. **Call Button:** Press and hold this button to send a ringing sound to other radios tuned to the same channel and CTCSS code.
9. **Up Button:** Press this button to increase the volume.
10. **Down Button:** Press this button to decrease the volume.
11. **LCD Display:** Displays information about the settings of the transceiver.
12. **Function Select Button:** Press this button to unlock the channel or CTCSS code setting
13. **Antenna:** Rotate counterclockwise when transceiver is in use
14. **Microphone / Charger Jack:** For use with an external micro phone / PTT button and optional battery charger.
15. **Speaker Jack:** For use with an external speaker.
16. **Transmit Indicator:** Illuminates while transmitting
17. **Low Battery Indicator:** Illuminates when the battery level is low

LCD DISPLAY AND OPERATION



The FR-240 is equipped with an LCD display to indicate its settings and functions. The Display incorporates automatic backlighting to allow it to be seen in the dark. Pressing any of the buttons except the P (Push-to-Talk) button, will illuminate the display. It will remain lit for 5 seconds after any of these buttons is pressed.

1 Displays the current channel number (1 to 14).

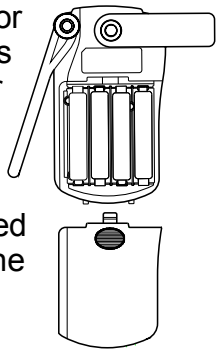
2 Displays the current CTCSS number (1 to 38).

3 Displays the current battery power level.

4 Appears when a headset is in use.

5 Displays the current volume setting.

BATTERY INSTALLATION



Your FR-240 requires four “AAA” alkaline cells or four rechargeable “AAA” cells. Alkaline batteries will provide the best performance from your transceiver. Remove the battery cover by rotating the belt clip away from the battery compartment. Slide the battery cover downward while applying pressure at its grooved section. Observe the polarity symbols inside the battery tray when installing the batteries.

CAUTION:

- Incorrect battery installation can damage the unit.
- The microphone / charger jack is intended for use with Audiovox approved charging accessories only. Refer to the documentation included with the battery charger.
- Never attempt to charge alkaline batteries with the optional battery charger.

BATTERY SAVER MODE

Your FR-240 has a unique circuit designed to dramatically extend the life of its batteries. After five seconds of inactivity, the FR-240 will switch to battery saver mode. The transceiver will remain ready to receive any incoming transmissions while in the battery saver mode. Pressing any of the buttons will exit the battery saver mode.

USING YOUR FR-240

Turning the Transceiver on

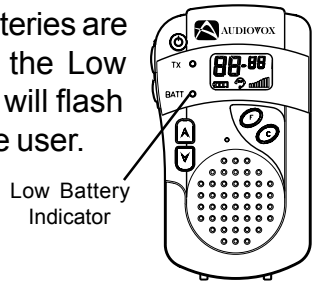
Press and hold the power button for 2 seconds. The display backlighting will illuminate and a conformation beep tone will confirm the transceiver's activation. To turn the unit off, simply press and hold the power button for 2 seconds.

Button Conformation Tones

Whenever, the FUNCTION SELECT, UP or DOWN buttons are pressed, the transceiver will play a tone to confirm each press.

Low Battery Alert

The battery icon on the LCD displays the current charge level of the transceiver's batteries. Three squares indicates a fully charged set. As the charge level of the batteries deteriorates, the display will represent the batteries weakened state with fewer squares. When the batteries are in need of replacement or charging, the Low battery indicator battery indicator LED will flash and the transceiver will beep to alert the user.

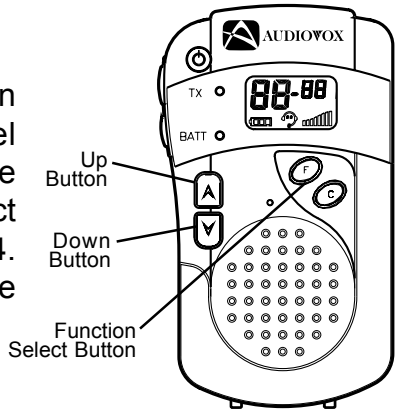


Function Select Button

Pressing this button will sequentially allow selection of the channel number or Continuous Tone Coded Squelch System. Pressing the button once from the standby mode, will allow setting of the channel number. This will be indicated by the slow flashing of the channel number display. Pressing the button a second time within 5 seconds will allow setting of the CTCSS code. This will be indicated by the slow flashing of the code number. If no buttons are pressed for 5 seconds, the unit will return to standby mode and the display will indicate the current channel. Pressing the Function Select button a third time or pressing the P (Push to Talk) or monitor buttons will also return to the standby mode.

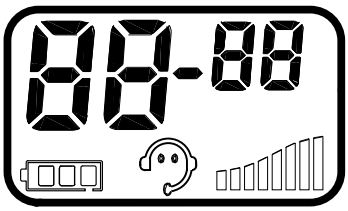
To Select a Channel

Press and release the function select button until the channel number flashes on the display. Use the up and down buttons to select the desired channel from 1 to 14. The current channel setting will be shown on the display.



Continuous Tone Coded Squelch System (CTCSS)
This feature allows you to ignore transmissions from other units that are using the same channel. One of 38 privacy codes may be selected. The same code must also be selected on those transceivers with which you desire to communicate. Keep in mind, however, that this feature does not prevent others from listening to your transmissions.

To Select a CTCSS Code
Press the function select button twice or until the small digits on the right flash on the display. Use the up and down buttons to select the desired squelch code number. After 5 seconds, the unit will return to the standby mode. The CTCSS squelch code will be applied only to the currently selected channel. To disable the CTCSS, and allow the transceiver to receive all messages on a particular channel select "00" as the code.



Continuous Tone Coded Squelch System
Tone Frequencies

CTCSS	Freq. Hz	CTCSS	Freq. Hz
1	67.0	20	131.8
2	71.9	21	136.5
3	74.4	22	141.3
4	77.0	23	146.2
5	79.7	24	151.4
6	82.5	25	156.7
7	85.4	26	162.2
8	88.5	27	167.9
9	91.5	28	173.8
10	94.8	29	179.9
11	97.4	30	186.2
12	100.0	31	192.8
13	103.5	32	203.5
14	107.2	33	210.7
15	110.9	34	218.1
16	114.8	35	225.7
17	118.8	36	233.6
18	123.0	37	241.8
19	127.3	38	250.3

Call Signals

The FR-240 will transmit a two-second ringing sound to other transceiver's tuned to the same channel and CTCSS code when the call button is pressed. This feature can be used to signal other parties that voice communication is desired.

To Transmit

1. Set the desired channel.
2. Press and hold the P (Push-to-Talk) button while speaking slowly and clearly in a normal voice, approximately 2 to 3 inches from the microphone.
3. The transmit indicator will illuminate while transmitting.
4. Release the P (Push-to-Talk) button when you finish speaking to receive incoming signals.

To Receive.

1. Set the desired channel and CTCSS code.
2. Adjust the volume control to the desired listening volume by using the up and down buttons while observing the volume indicator on the display
3. The transceiver will play strong signals through its internal speaker or through a headset if so equipped.

Monitor Function

The monitor button can be used to play all signals present on a channel. This is useful when communicating with other parties at extreme range.

The monitor function can be locked on by pressing its button for three seconds. A confirmation tone indicates that the monitor lock has been activated. Pressing either the call, P (Push-to-Talk) or monitor buttons will unlock the monitor function.

WARNING

Remove the batteries from the transceiver if it is not expected to be used for long periods of time. This will eliminate the possibility of battery acid leaking from the batteries and corroding the transceiver.

Avoid exposing the unit to water or extremes of temperature.

Do not use this device in or near a mining facility, which uses remotely triggered explosives or in areas labeled “Blasting Area”. Premature or accidental detonation may result.

Do not attempt to modify or in any way increase the output of this transceiver. Its output is designed to meet the legal limits set by the FCC.

Do not use this device or change its batteries in potentially explosive atmospheres as sparks in such areas could result in an explosion.

Turn your transceiver off wherever posted notices restrict the use of radios or cellular telephones. Facilities such as hospitals may use equipment that is sensitive to RF energy.

Turn your transceiver off on board aircraft when requested to do so.

Do not place your transceiver in front of a vehicle’s air-bag. If the air-bag deploys, it could propel the transceiver like a projectile.

This transceiver complies with F.C.C. regulations for use in the United States. Use in other countries may be prohibited or restricted by local regulation. Please check with the local regulating agency before using this device outside of the United States.

SPECIFICATIONS*

Channels:	14
Output Power:	500 mw ERP
Battery Life	
Alkaline:	30 - 35 Hours
Power Source:	6.0V DC

* These specifications are subject to change without notice. They represent typical values, individual units may vary.

Channel Frequencies:

Channel	MHz	Channel	MHz
1	462.5625	8	467.5625
2	462.5875	9	467.5875
3	462.6125	10	467.6125
4	462.6375	11	467.6375
5	462.6625	12	467.6625
6	462.6875	13	467.6875
7	462.7125	14	467.7125

90 DAY LIMITED WARRANTY

Applies to Audiovox Family Radio Service Products.

AUDIOVOX CORPORATION (the Company) warrants to the original retail purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 90 days from the date of original purchase, such defect(s) will be repaired or replaced with new or reconditioned product (at the Company's option) without charge for parts and repair labor.

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to the warranty center at the address shown below.

The Company disclaims liability for communications range of this product.

This Warranty does not apply to any product or part thereof which, in the opinion of the Company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s). THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 30 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

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